

**EAST Search History****EAST Search History (Prior Art)**

| Ref # | Hits   | Search Query                                                                                                                                                                                                                                                                                                                                                                                     | DBs                                                      | Default Operator | Plurals | Time Stamp       |
|-------|--------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------|------------------|---------|------------------|
| L2    | 278275 | (laser or beam or light) and scan\$4 and (mirror or reflector or deflector or polygon or oscillator or galvanomirror or (MEMS or MOMS or MOEMS or MEOMS or DMS or DMD or GLV) or ((torsion\$4 or swing\$3) with (reflect\$4 or mirror or deflect\$3)) or (micro adj mirror or micromirror or micro-mechanic\$4 or micromechanic\$4 or microelectromechanic\$4) or (grating adj light adj valve)) | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR               | ON      | 2009/11/04 12:21 |
| L3    | 13     | ((non?integral non-integer nonintegral noninteger) near (multiple times)) with (cycle with data)                                                                                                                                                                                                                                                                                                 | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR               | ON      | 2009/11/04 12:28 |
| L4    | 1      | 2 and 3                                                                                                                                                                                                                                                                                                                                                                                          | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR               | ON      | 2009/11/04 12:28 |
| S1    | 1      | 10/568681                                                                                                                                                                                                                                                                                                                                                                                        | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR               | ON      | 2008/09/02 15:21 |
| S2    | 7661   | (359/196-226).CCLS.                                                                                                                                                                                                                                                                                                                                                                              | US-PGPUB; USPAT; USOCR                                   | OR               | OFF     | 2008/10/07 14:25 |
| S3    | 299319 | modulat\$4 and correct\$4                                                                                                                                                                                                                                                                                                                                                                        | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR               | ON      | 2008/10/07 14:26 |
| S4    | 1637   | S2 and S3                                                                                                                                                                                                                                                                                                                                                                                        | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR               | ON      | 2008/10/07 14:27 |
| S5    | 376    | ("4317611"   "4468282"   "4732440"   "4942766"   "5016072"   "5202785").PN. OR ("5629790").URPN.                                                                                                                                                                                                                                                                                                 | US-PGPUB; USPAT; USOCR                                   | OR               | ON      | 2008/10/07 14:28 |

|     |        |                                                                                   |                                                                      |    |     |                     |
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| S6  | 95     | S3 and S5 and scan\$4                                                             | US-PGPUB;<br>USPAT; USOCR;<br>FPRS; EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON  | 2008/10/07<br>14:30 |
| S7  | 219    | ((YOSHINORI) near2<br>(HAYASHI)).INV.                                             | US-PGPUB;<br>USPAT; USOCR                                            | OR | ON  | 2009/02/13<br>09:56 |
| S8  | 70     | ((HIROMICHI) near2<br>(ATSUUMI)).INV.                                             | US-PGPUB;<br>USPAT; USOCR                                            | OR | ON  | 2009/02/13<br>09:57 |
| S9  | 38     | ((oscillat\$4 or scan\$4) and<br>(modulat\$4)).clm. and (S7 or<br>S8)             | US-PGPUB;<br>USPAT; USOCR;<br>FPRS; EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON  | 2009/02/13<br>09:58 |
| S10 | 4      | "20020114057"  <br>"20030011751").PN.                                             | US-PGPUB;<br>USPAT; USOCR;<br>FPRS; EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON  | 2009/02/13<br>10:17 |
| S11 | 3773   | ((oscillat\$4 or scan\$4 or switch<br>\$4) and (electro-optic near3<br>crystal))  | US-PGPUB;<br>USPAT; USOCR;<br>FPRS; EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON  | 2009/02/13<br>10:58 |
| S12 | 827    | ((oscillat\$4 or scan\$4 or switch<br>\$4) with (electro-optic near3<br>crystal)) | US-PGPUB;<br>USPAT; USOCR;<br>FPRS; EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON  | 2009/02/13<br>10:58 |
| S13 | 427748 | "359".clas. or "250".clas. or<br>"347".clas. or "358".clas.                       | US-PGPUB;<br>USPAT; USOCR;<br>FPRS; EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON  | 2009/02/13<br>10:59 |
| S14 | 251    | S12 and S13                                                                       | US-PGPUB;<br>USPAT; USOCR;<br>FPRS; EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON  | 2009/02/13<br>10:59 |
| S15 | 7929   | (359/196-226).CCLS.                                                               | US-PGPUB;<br>USPAT; USOCR                                            | OR | OFF | 2009/02/13<br>10:59 |
| S16 | 40     | S14 and S15                                                                       | US-PGPUB;<br>USPAT; USOCR;<br>FPRS; EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON  | 2009/02/13<br>10:59 |
| S17 | 1      | doak.xa. and Kerr                                                                 | US-PGPUB;<br>USPAT; USOCR;<br>FPRS; EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON  | 2009/02/13<br>12:03 |

|     |         |                                                                                                                                                                                                                                                        |                                                                      |    |     |                     |
|-----|---------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------|----|-----|---------------------|
| S18 | 13      | (US-20050134141-\$ or US-20040119001-\$).did. or (US-5315427-\$ or US-6140979-\$ or US-3658409-\$ or US-4060319-\$ or US-5028816-\$ or US-5148010-\$ or US-6069650-\$ or US-6285489-\$ or US-7256916-\$).did. or (US-3445826-\$ or US-3527520-\$).did. | US-PGPUB;<br>USPAT; USOCR                                            | OR | ON  | 2009/02/13<br>12:10 |
| S19 | 12      | \$12 and S18                                                                                                                                                                                                                                           | US-PGPUB;<br>USPAT; USOCR;<br>FPRS; EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON  | 2009/02/13<br>12:16 |
| S20 | 7       | ("20040233385") or ("20050179861") or ("6935744") or ("7241010") or ("20070182923") or ("7399080") or ("20090109396")).PN.                                                                                                                             | US-PGPUB;<br>USPAT; USOCR                                            | OR | OFF | 2009/07/28<br>13:11 |
| S21 | 7466    | (359/196.1-226.3).CCLS.                                                                                                                                                                                                                                | US-PGPUB;<br>USPAT; USOCR                                            | OR | OFF | 2009/07/28<br>17:31 |
| S22 | 851     | oscillat\$4 or scan\$4 or switch\$4 with (electro-optic near3 crystal)                                                                                                                                                                                 | US-PGPUB;<br>USPAT; USOCR;<br>FPRS; EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON  | 2009/07/28<br>17:34 |
| S23 | 436817  | "359".clas. or "250".clas. or "347".clas. or "358".clas.                                                                                                                                                                                               | US-PGPUB;<br>USPAT; USOCR;<br>FPRS; EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON  | 2009/07/28<br>17:34 |
| S24 | 253     | S22 and S23                                                                                                                                                                                                                                            | US-PGPUB;<br>USPAT; USOCR;<br>FPRS; EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON  | 2009/07/28<br>17:34 |
| S25 | 325347  | modulat\$4 and correct\$4                                                                                                                                                                                                                              | US-PGPUB;<br>USPAT; USOCR;<br>FPRS; EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON  | 2009/07/28<br>17:34 |
| S26 | 1040757 | @pd>="20090201"                                                                                                                                                                                                                                        | US-PGPUB;<br>USPAT; USOCR;<br>FPRS; EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON  | 2009/07/28<br>17:35 |
| S27 | 59      | S25 and S26 and S21                                                                                                                                                                                                                                    | US-PGPUB;<br>USPAT; USOCR;<br>FPRS; EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON  | 2009/07/28<br>17:36 |

|     |         |                                                                                                |                                                          |    |     |                  |
|-----|---------|------------------------------------------------------------------------------------------------|----------------------------------------------------------|----|-----|------------------|
| S28 | 151705  | (non-integral or non-integer or fraction or integer or integral) with (cycle or sweep or line) | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | ON  | 2009/07/28 17:37 |
| S29 | 211     | S28 and S21                                                                                    | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | ON  | 2009/07/28 17:39 |
| S30 | 7584    | (359/196.1-226.3).CCLS.                                                                        | US-PGPUB; USPAT; USOCR                                   | OR | OFF | 2009/11/04 10:51 |
| S31 | 334030  | modulat\$4 and correct\$4                                                                      | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | ON  | 2009/11/04 10:51 |
| S32 | 1777646 | @pd>="20090201"                                                                                | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | ON  | 2009/11/04 10:51 |
| S33 | 94      | S31 and S32 and S30                                                                            | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | ON  | 2009/11/04 10:51 |

## EAST Search History (Interference)

| Ref # | Hits   | Search Query                                                                                                                                                                                                                                                                                                                                                                                      | DBs         | Default Operator | Plurals | Time Stamp       |
|-------|--------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------|------------------|---------|------------------|
| L5    | 127401 | (laser or beam or light) and scan\$4 and (mirror or reflector or deflector or polygon or oscillator or galvanomirror or (MEMS or MOMS or MOEMS or MEOMS or DMS or DMD or GLV) or ((torsion \$4 or swing\$3) with (reflect\$4 or mirror or deflect\$3)) or (micro adj mirror or micromirror or micro-mechanic\$4 or micromechanic\$4 or microelectromechanic\$4) or (grating adj light adj valve)) | USPAT; UPAD | OR               | ON      | 2009/11/04 12:29 |
| L6    | 8      | ((non?integral non-integer nonintegral noninteger) near (multiple times)) with (cycle with data)                                                                                                                                                                                                                                                                                                  | USPAT; UPAD | OR               | ON      | 2009/11/04 12:29 |
| L8    | 0      | 5 and 6                                                                                                                                                                                                                                                                                                                                                                                           | USPAT; UPAD | OR               | ON      | 2009/11/04 12:30 |

11/4/2009 12:30:58 PM

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